

Radioactive Sources



The **RRS Radioactive Reference Sources** feature:

- Traceable, certified 2 pi emission rates
- A safe and permanent container
- Accurate probe positioning for excellent repeatability.
- Hinged shutter for probe response checking at two count rates:
 - i) shutter open - rapid, accurate probe efficiency determination
 - ii) shutter closed - check at a nominal 10% of source emission rate.
- Colour-coded label indicating radionuclide and surface emission rate.
- Source active area matched to specific probe window area.

The **CK-1** Check Source #9480008 is a "stay alive" button source used to check Survey Meter functionality.

Probe	Source	Nuclide	Emission Rate
AP2/4A, AP2R, DP2/4A, DP2R/4A	RRS 21A	^{241}Am Alpha	2400/s
AP3/4A, AP3R/4A, DP3/4A, DP3R/4A	RRS 31A	^{241}Am Alpha	2400/s
AP5A, DP6A	RRS 51A	^{241}Am Alpha	111/s
AP6A, DP8A	RRH 11B	^{241}Am Alpha	56/s
BP4/4A,B,C	RRS 12A	^{14}C Beta	4000/s
BP7/4A	RRS 22A	^{14}C Beta	4000/s
BP6/4A, BP6R/4A	RRS 32A	^{14}C Beta	4000/s
BP19AD	RRS 52A	^{14}C Beta	1110/s
BP4/4A,B,C	RRS 14A	^{36}Cl Beta	2150/s
BP7/4A , BP20/A, DP2/4A, DP2R/4A	RRS 24A	^{36}Cl Beta	2150/s
DP6AD, DP6BD, DP6CD, DP6DD, BP19AD	RRS 54A	^{36}Cl Beta	1110/s
BP13A	RRS 64A	^{36}Cl Beta	1110/s
BP17A, DP8A	RRH 14B	^{36}Cl Beta	550/s
GP13A	RRS 59A	^{129}I Gamma	1110/s

